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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. First Inventor Title

Express Mail Label No.

40296-0042

Ta Yun KIM

S If-Refr sh Apparatus and M thod

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.					ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
1. 2. 3. 4. 5.	(S) (p) (p) (p) (p) (p) (p) (p) (p) (p) (p	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. Specification [Total Pages 39] (preferred arrangement set forth below) Descriptive title of the Invention Cross Reference to Related Applications Statement Regarding Fed-Sponsored R&D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Detailed Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure Drawing(s) (35 CFR 113) Total Sheets 15 Abelia Sheets 3 a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting					7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies CONTENT (ACCOMPANYING APPLICATION PARTS) 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Citations Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
6.	inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76					(if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/Sb/35 or its equivalent. 17. Other:					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No. Prior application information: Examiner Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.											
19. CORRESPONDENCE ADDRESS											
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Signature 10		Plumdo	Challe -			Date	December 8,	2003			

This collection of information is required by 37 C.F.R. (53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 C.F.R. 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions by reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 810.00

Complete if Known					
Application Number	Unassigned				
Filing Date	December 8, 2003				
First Named Inventor	Tae Yun KIM				
Examiner Name	Unassigned				
Art Unit	Unassigned				
Attorney Docket No.	40296-0042				

METHOD	FEE CALCULATION (continued)								
Check Credit card	3. A	DDITION	AL FEI	ES					
Deposit Account: Deposit Account Number	10296-0042)		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	
Deposit	1051	130	2051	65	Surcharge - late filing fee or oath				
Account Heller Ehrm.	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet				
The Commissioner is autho	1053	130	1053	130	Non-English specification For filing a request for ex parte				
☐ Charge fee(s) indicated b	1812 1804	2,520 920*	1812 1804	2,520 920*	reexamination				
					Requesting publication of SIR prior to Examiner action				
Charge any additional fe	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action				
Charge fee(s) indicated be identified deposit account.	1251	110	2251	55	Extension for reply within first month				
FEE	1252	420	2252	210	Extension for reply within second month				
1. BASIC FILING FEE				1253	950	2253	475	Extension for reply within third month	
Large Entity Small Fee Fee Fee	Entity Fee	Fee Description	Fee Paid	1254	1,480	2254	740	Extension for reply within fourth month	
Code (\$) Code	(\$)			1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2001	385	Utility filing fee	770	1401	330	2401	165	Notice of Appeal	
1002 340 2002	170	Design filing fee		1402	330	2402	165	Filing a brief in support of an appeal	
1003 530 2003	265	Plant filing fee		1403	290	2403	145	Request for oral hearing	
1004 770 2004	385	Reissue filing fee		1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005	80	Provisional filing fee		1452	110	2452	55	Petition to revive - unavoidable	
s	UBTOTAL	(1) (\$)	770	1453	1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES	1501	1,330	2501	665	Utility issue fee (or reissue)				
J	Extra Cla	Fee from ims below	Fee Paid	1502	480	2502	240	Design issue fee	_
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Independent 3 -3** =	0	x 86 =	= 0	1460	130	1460	130	Petitions to the Commissioner	
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Large Entity Small Fee Fee Fee	Entity Fee	Fee Descrip	tion	1806	180	1806	180	Submission of Information Disclosure	
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1201 86 2201		Independent claims i		1809	770	2809	385	property (times number of properties)	40
								Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203	145	Multiple dependent of paid	ŕ	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204	43	**Reissue independe over original patent		1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18 2205	9	**Reissue claims in and over original pat	excess of 20	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$)					Other fee (specify)				
**or number previously paid, if greater; For Reissues, see above					* Reduced by Basic Filing Fee Paid SUBTOTAL (3)				(E) 401
SURMITTED BY	Neunce	a by Dasit	. milg F	or alu	SUBTUIAL(3)	(\$) 40			

Name (Print/Type) Registration No. Johnny A. Kumar 34,649 Telephone202-912-2000 (Attorney/Agent) Signature Date December 8, 2003 Customer No. 26633

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